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## U.S. Centennial of Flight Commission











### Welcome to the Centennial of Flight Commission!

The Centennial of Flight Commission was created by the U.S. Congress in 1999 to serve as a national and international source of information about activities to commemorate the centennial of the Wright Brothers' first powered flight on the sands at Kitty Hawk, North Carolina, on December 17, 1903. There will be much centennial excitement in 2003 in both North Carolina and Dayton , Ohio , home place of the Wright brothers. In addition to these celebrations, we anticipate numerous historical and educational projects about aviation and aeronautics that will be an important legacy of the centennial of powered flight.

Over time we will add features to our web site that will interest aviation enthusiasts, students of aeronautics, educators, historians, and children of all ages. One of the most important of these features will be a searchable calendar of events surrounding, and inspired by, the centennial in 2003. Starting now, we invite you to let us know about the Wright centennial inspired activities you are planning, (Click on "contact us," below.) From our web site you will also be able to link to other aviation and aeronautics related organizations and resources.

We also want to be as "user friendly" as we can. Those of you visiting our web site with slower modem speeds will be able to see the same content as those with faster speeds. And, of course, we will be able to meet Federal accessibility requirements for individuals with a variety of disabilities. Be sure to let us know if you have any technical difficulties with our web site by clicking on "contact us," below.

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## U.S. Centennial of Flight Commission











# Celebrating a Century of POWERED FLIGHT

Calendar of Events Submit an Event Submit an Event

Welcome to the U.S. Centennial of Flight Commission's "Calendar of Events." The sites and links provided here are intended to give you information about activities listed on the calendar. We have populated the calendar with a few aviation events for the initial take off roll. The "Submit an Event" feature will allow you to submit information about upcoming events that are related to the centennial of flight, the history of aviation, and/or aviation in general. We are looking for events that meet the following criteria:

- Sponsored by a reputable organization that is willing to provide basic details about itself and its event;
- 2. Open to the public or have a large invited attendance; and
- 3. Relevant to the centennial of powered flight or the history of aviation.

All events submitted via the "Submit Event" button will be reviewed in the order in which they are received, and then, if appropriate, posted on the calendar.

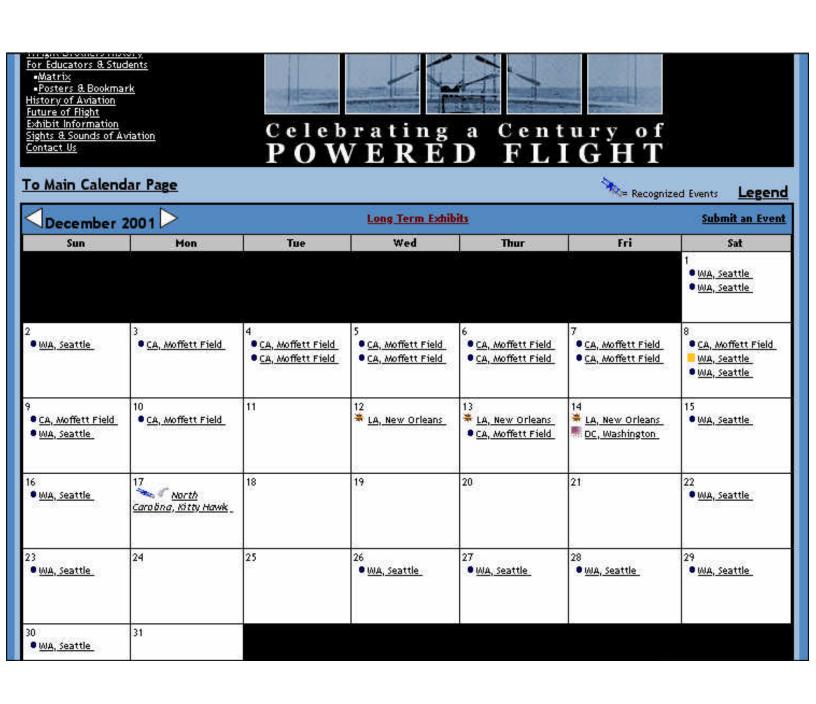
Event planners may wish to request special recognition by the Commission. If recognized, an airplane will be placed on the calendar next to the event. In addition, planners of recognized events may be able to use the U.S. Centennial of Flight (COFC) logo in the following ways:

- Display the logo in conjunction with the event and event advertising;
- 2. Use the COFC special recognition as an aid in promoting the event to potential sponsors, donors, and/or partners; and
- 3. Enter into product licensing arrangements with NASA that include use of the Commission logo on a case by case basis.

The Commission's History and Education Panel has established a clearly-defined process for the selection of events that will be recognized by the Commission. That process involves completing the form that appears on the "Submit an Event" web page once the question "Would you like your event to be recognized by the Commission?" is responded to positively.

We are looking forward to receiving information about aviation and aerospace activities in your community. We would also appreciate your comments about the site.

Although events and activities listed on this site have been reviewed, the Commission cannot guarantee the accuracy of this information. The U.S. Centennial of Flight Commission does not endorse any activities, products, or services that may be listed on the web sites accessed through the calendar unless they are specifically noted as being endorsed by the Commission. For more information, please click on "Disclaimer" at the bottom of this page.



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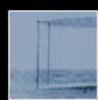
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# Celebrating a Century of POWERED FLIGHT

#### To December Calendar > View an Event

#### LA, New Orleans

Short Title NASA Quest webcast with Debbie Gallaway

Date of the Event December 13, 2001
Time of Event 1-1:45 PM EST
Type of Event Educational Activity
Expected Total Attendance Less than 100

Brief Description Join us for a webcast from NASA Headquarters as Debbie Gallaway will speak about the

Centennial of Flight Commission and her personal experience flying the Wright brothers' 1901

glider.

Website <a href="http://quest.nasa.gov/projects/centennial/aero">http://quest.nasa.gov/projects/centennial/aero</a>

Location of Event

Address NASA Ames Research Center, MS 204-14

City Moffett Field

State/Province CA

Zip/Postal Code 94035-1000
Country United States

Location Description NASA Quest is an education web site for classrooms. It offers students opportunities for live

interactions with NASA experts.

Point of Contact Information

Name Susan Lee
Telephone (650) 604-0766
E-mail Address slee@mail.arc.nasa.gov

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# Celebrating a Century of POWERED FLIGHT

#### Long Term Exhibits > View an Event

- Nationwide Tour of Full-sized Flight Replica January 01, 2003-December 31, 2003 to be announced to be announced
- Lecture Series and Aviation Film Festival January 01, 2003-December 01, 2003 USAF Museum 1100 Spaatz Street Wright-Patterson AFB Ohio
- Aviation Classic Film Festival
   January 01, 2003-December 01, 2003
   USAF Musuem 1100 Spaatz Street
   Wright-Patterson AFB Ohio
- Building Models for Space Travel and Cinematograph
  December 15, 2001-December 15, 2001
   9404 E. Marginal Way S
  Seattle WA

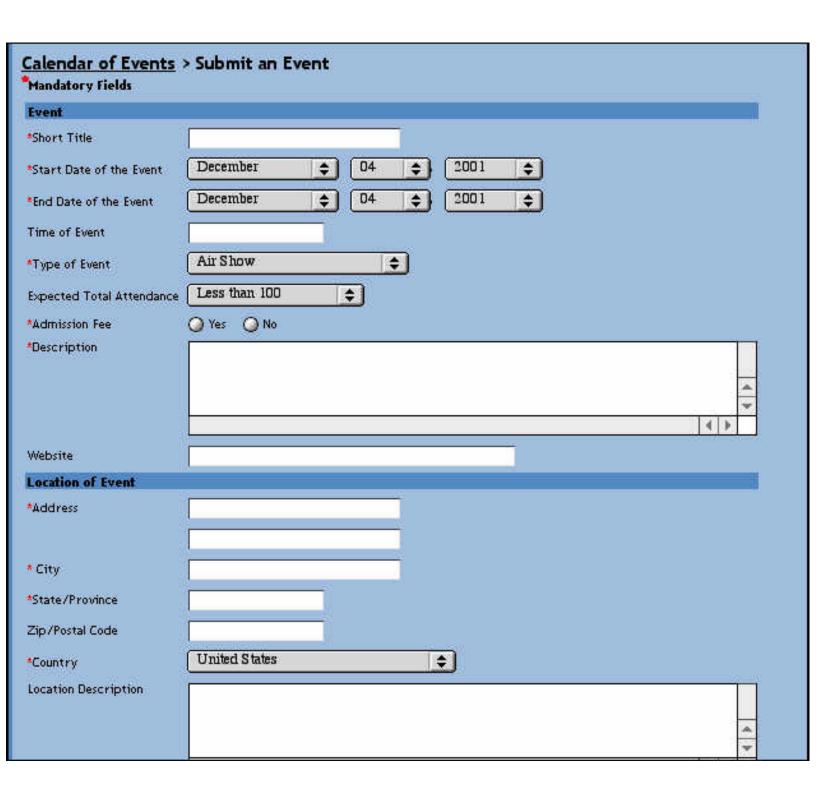
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Sketch of the 1903 Wright Flyer

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#### Additional Information

Can be found at the following external web sites:

"How We Made The First Flight"

Wilbur and Orville Wright

Library of Congress Registry of Wright Papers

Library of Congress - Day in History

The Wright Brothers: 1899-1903

## U.S. Centennial of Flight Commission



## Century of FLIGHT Celebrating a C POWERED

## Wright Brothers History



Orville and Wilbur Wright

There is something quintessentially American about Orville and Wilbur Wright's historic achievement at Kitty Hawk on December 17, 1903. They worked independently, as most American heroes have done, free of the entanglements of large industrial or government organizations. Their intense preoccupation with their airplane was fueled not by economic necessity -- income they already had, from their bicycle business -- but mostly from their imaginative determination to cross one of the last technological barriers to human flightstability in the air.



Wright Bibliography





The Wright Experience

## In Depth: The Engine



#### WRIGHT POWER

ENGINE HISTORY

ANATOMY

PERFORMANCE

USE

#### An Artifact with a Pulse

The Wright Brothers had a clear concept of the role of engines in their aircraft: to provide reliable, sufficient power. The amount of power was determined as part of the overall design of the aircraft. The Vertical Four engine was the ultimate result of the Wrights' engine designs.

#### The Wright Story



How did the vertical design evolve from this 1903 engine?

#### An Artifact with a Pulse

The Wright Experience owns the only operating original Wright Engine in the world-Vertical Four Serial #20. This presentation will investigate the engine in the following areas:



Engine History: From an obscure letter written to Orville Wright, the team located and obtained the engine, and uncovered its amazing history.



Anatomy: What's inside a Vertical Four? Step into the mind of Orville Wright.



#### Engine Specifications

Bore - 4 3/8 inches Stroke - 4 inches

Displacement - 241 cubic inches Compression ratio - 4.7:1 Horsepower - 35 hp @ 1400 rpm



<u>Performance</u>: The engine was tested in a dynamometer at Delphi Automotive Labs to make complete study of its actual performance.



Use: The engine has a new life as a model for new Wright Vertical Four engines, and will also return to its original function as the powerplant of a brand new Wright Model "B".



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## Celebrating a Century of POWERED FLIGHT

#### For Educators and Students

This web site will serve as the primary mechanism by which the Centennial of Flight Commission will disseminate information to educators and their students. Through this site, we will provide numerous suggestions of how you can engage your students in a multitude of interdisciplinary activities related to the past, present, and future of flight.

We hope the resources will encourage you and your students to celebrate the past 100 years of flight; to rediscover the challenges of flight; and to learn about the people, events, and technology that made flight possible. Students of all ages will be able to examine how our world has changed as a result of the Wright Brothers' first powered flight on December 17, 1903. What possibilities will they be able to imagine for the next one hundred years of flight?

We have many exciting plans to connect you and your students to the wonderful world of aeronautics and space flight. Over the course of the next several years, a vast array of aerospace-related products, programs, and information, such as the attached educational resources matrix, will be made available through this web site. We will also post information about conferences, special events, and places of interest.

The organizations and agencies listed below represent the U.S. Centennial of Flight Commissioners and additional relevant entities such as those representing Ohio and North Carolina. We have also provided the direct link to each of their education home pages.

Experimental Aircraft Association (EAA) www.eaa.org/education.html

Federal Aviation Administration (FAA) www.faa.gov/education

First Flight Centennial Commission www.firstflightnc.com/education.cfm

First Flight Centennial Foundation www.firstflightcentennial.org/mlc.htm

Inventing Flight: The Centennial Celebration, 2003



#### What's New!

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## Century of Celebrating a

#### Educational Resources Matrix

The organizations listed in the matrix are members of the National Coalition for Aviation Education and represent government, industry, and labor. The coalition members have united to promote aviation education activities and resources; increase public understanding of aviation; and support education initiatives at the local, state, and national levels. Although the information provided here is organized to support educational initiatives, there are many additional links that point to a multitude of aerospace resources. You can access each organization's information links and home page by clicking on the name of the organization. The drop-down list at the top of the page will provide direct access to all organized by catagory.

MATRIX

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